



55638-29

Candida oleophila I 2

Aspire® biofungicide is a selective fungal antagonist for control of pathogens that cause post-harvest decay.

Active Ingredient:

Candida oleophila isolate I-182 55.0%*

Inert Ingredients: 45.0%

Total 100.0%

*Contains not less than 2×10^{10} cfu/g

KEEP OUT OF REACH OF CHILDREN

CAUTION

STATEMENT OF PRACTICAL TREATMENT

If In Eyes: Flush eyes with plenty of water. Call a physician if irritation persists.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Avoid contact with eyes. In case of contact, immediately flush eyes with plenty of water. Get medical attention if irritation persists.

Wear a dust/mist-filtering respirator (NIOSH/MSHA approval number prefix TC-21C).

ENVIRONMENTAL HAZARDS

Do not contaminate water when disposing of equipment washwaters.

Do not allow spray runoff water to enter lakes, streams, ponds, drainage ditches or wetlands.

with COMMENTS in EPA Letter Dated

JAN 27 2000

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.

55638-29

EPA REG. No. 55638-29

EPA EST. No. 067367-MN-001

(Subscript refers to last 2 digits of lot number on container.)

Net Contents: 1 U.S. Pound

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store under refrigeration in a location inaccessible to children.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill, or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Mode of Action: ASPIRE is a yeast antagonist that precludes colonization of fruit surfaces by decay pathogens. ASPIRE effectively colonizes fruit surfaces, especially wounded tissues, thereby inhibiting other microbial colonization.

MIXING INSTRUCTIONS

ASPIRE should be thoroughly mixed with water. Fill the application container one-half full with water; add ASPIRE, then finish filling the container. Agitate the tank-mix to maintain suspension. For best results, maintain continuous agitation during the application period.



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FOR POST-HARVEST APPLICATION TO CONTROL THE FOLLOWING DECAY-CAUSING PATHOGENS

Botrytis spp. *Penicillium spp.*
Diplodia spp. *Phomopsis spp.*
Geotrichum spp.

FOR POST-HARVEST APPLICATION TO:

Berries, Bulb Vegetables, Citrus Fruits, Cucurbit Vegetables, Fruiting Vegetables, Grapes, Legume Vegetables, Pome Fruits, Root and Tuber Vegetables, Strawberries, Stone Fruits

FOR POST-HARVEST APPLICATION TO:

Commercial, Flowers, Greenhouse & Ornamental Plants: Crops such as: Bare Root & Container Stock, Bedding & Flower Plants (Greenhouse), Bulbs, Cut Flowers, Hardwood Cuttings & Woody Ornamentals, Roses, Shade & Flowering Trees, Vegetable Seedlings

APPLICATION INSTRUCTIONS

HAND-HELD EQUIPMENT

When using hand-held equipment, mix 8 ounces per gallon of water or 10 pounds per 100 gallons of spray solution. Spray to runoff.

IN LINE OR NON RECOVERY SPRAYS

Use rates for in-line application: Dilute ASPIRE to provide sufficient liquid volume to obtain thorough coverage.

DRENCH OR DIP TANKS

May be use in drench or dip tanks. Use rates for such applications are crop specific. Refer to the label for specific drench application requirements.

TANK-MIX

Combinations of ASPIRE with commonly used post harvest fungicides, are generally not deleterious to performance.

Sanitation agents such as, chlorine, sodium ortho phenylphenate, sodium hypochlorite, Zerotel or others require a fresh water rinse between the sanitation treatment and the application of ASPIRE. Chlorine dioxide treatments do not require a rinse.

Apply ASPIRE prior to waxing. Do not tank-mix with wax coatings. Addition of CaCl₂ or sodium bicarbonate may enhance the performance of ASPIRE. It is advisable to test apply ASPIRE physical compatibility by mixing all components in a small container in proportionate quantities prior to mixing in spray tank. This product cannot be mixed with any product containing a label prohibition against such mixing.

No label dosage rate should be exceeded. Application must be made in accordance with the more restrictive of label limitations and precautions.

Crops such as:	Diseases:
CITRUS FRUIT <ul style="list-style-type: none"> Apply ASPIRE prior to waxing. Do not tank-mix with wax coatings. Apply ASPIRE to fruit by any method devised for such application in the processing line. Thorough coverage of the fruit surface is advised for best results. Apply ASPIRE coinjected with Imazalil fungicide at rates of 50-500 ppm may improve decay results. Use of ASPIRE in a combination of treatment with thiabendazole fungicide at rates of 50-550 ppm may further improve decay control. Sodium ortho phenylphenate (SOPP) or sodium hypochlorite may be used prior to ASPIRE application provided that a water rinse occurs between these two treatments. SOPP or sodium hypochlorite should not be co-mixed in the same tank with ASPIRE 	Green Mold <i>(Penicillium digitatum)</i> Blue Mold <i>(Penicillium italicum)</i> Sour Rot <i>(Geotrichum candidum)</i> Stem end rot <i>(Diplodia & Phomopsis)</i>

Use rates for in-line application: Dilute ASPIRE to provide a rate of 1.0 pound per 20 tons of fruit in minimum sufficient liquid volume to obtain thorough coverage.

Crops such as:	Diseases:
POME FRUIT <ul style="list-style-type: none"> Apply ASPIRE prior to waxing. Do not tank-mix with wax coatings. Apply ASPIRE to fruit by any method devised for such application in the processing line. Thorough coverage of the fruit surface is advised for best results. Apply ASPIRE coinjected with Imazalil fungicide at rates of 50-500 ppm may improve decay results. Use of ASPIRE in a combination of treatment with thiabendazole fungicide at rates of 50-550 ppm may further improve decay control. Addition of CaCl₂ at rates of 1-2% w/v may enhance the performance of ASPIRE. Sodium hypochlorite may be used prior to ASPIRE application provided that a water rinse occurs between these two treatments. Sodium hypochlorite should not be co-mixed in the same tank with ASPIRE. 	B'us Mold <i>(Penicillium expansum)</i> Grey Mold <i>(Botrytis cinera)</i>

Use rates for bin drench application: Dilute ASPIRE to provide a rate of 10 pounds per 1000 gallons of water.

Use rates for in-line application: Dilute ASPIRE to provide a rate of 1.0 pound per 20 tons of fruit in minimum sufficient liquid volume to obtain thorough coverage

Crops such as:	Diseases:
STONE FRUIT <ul style="list-style-type: none"> Apply ASPIRE to fruit by any method devised for such application in the processing line. Thorough coverage of fruit in the processing line is advised for best results. Addition of sodium bicarbonate up to 2% in solution may enhance the performance of Aspire Chlorine or sodium hypochlorite may be used prior to ASPIRE application provided that a water rinse occurs between these two treatments. 	Blue Mold <i>(Penicillium italicum and P. expansum)</i> Gray Mold <i>(Botrytis cinera)</i>

Use rates for hydrocooler/drench application: Dilute ASPIRE to provide a rate of 10 pounds per 1000 gallons of water.

Use rates for in-line application: Dilute ASPIRE to provide a rate of 1.0 pound per 20 tons of fruit in minimum sufficient liquid volume to obtain thorough coverage.

Crops such as:	Diseases:
CEREAL GRAINS AND TREE NUTS FOR STORAGE	Blue Mold <i>(Penicillium italicum and P. expansum)</i> Gray Mold <i>(Botrytis cinera)</i>

Use rates for drench application: Dilute ASPIRE to provide a rate of 1.0 - 2.0 pounds per 100 gallons of water.

Use rates for in-line application: Dilute ASPIRE to provide a rate of 1.0 - 2.0 pounds in minimum sufficient liquid volume to obtain thorough coverage.

Crops such as:	Diseases:
BRASSICA LEAFY VEGETABLES, LEAFY VEGETABLES AND HERBS such as: Arugula, Basil, Broccoli, Cabbage, Celery, Chinese Cabbage, Chive, Cross, Kale, Lettuce, Parsley, Spinach, etc.	Gray Mold <i>(Botrytis cinera)</i>

Use rates for drench or dip application: Dilute ASPIRE to provide a rate of 1.0 - 2.0 pounds per 100 gallons of water.

Use rates for in-line non recovery applications: Dilute ASPIRE to provide a rate of 1.0 - 2.0 pounds in minimum sufficient liquid volume to obtain thorough coverage.

Crops such as:	Diseases:
BERRIES such as: Blueberries, Currants, Gooseberries, Cranberries, Blackberries, Boysenberries, Loganberries, Raspberries, and Strawberries	Blue Mold <i>(Penicillium italicum and P. expansum)</i> Gray Mold <i>(Botrytis cinera)</i>
<ul style="list-style-type: none"> Apply ASPIRE to fruit by any method devised for such application in the processing line. Thorough coverage of fruit in the processing line is advised for best results. Chlorine or sodium hypochlorite may be used prior to ASPIRE application provided that a water rinse occurs between these two treatments. 	

Use rates for drench application: Dilute ASPIRE to provide a rate of 1.0 - 2.0 pounds per 100 gallons of water.

Use rates for in-line application: Dilute ASPIRE to provide a rate of 1.0 - 2.0 pounds in minimum sufficient liquid volume to obtain thorough coverage.

Crops such as:	Diseases:
FRUITING AND LEGUME VEGETABLES such as: Beans, Cucumber, Eggplant, Peppers, Peas, Tomatoes, etc.	Gray Mold <i>(Botrytis cinera)</i>

Use rates for drench or dip application: Dilute ASPIRE to provide a rate of 1.0 - 2.0 pounds per 100 gallons of water.

Use rates for in-line non recovery applications: Dilute ASPIRE to provide a rate of 1.0 - 2.0 pounds in minimum sufficient liquid volume to obtain thorough coverage.

May be used in conjunction with hydrocooler systems.

Crops such as:	Diseases:
CUCURBIT VEGETABLES: Cantaloupe, Cucumber, Honeydew, Okra, Squash, Watermelon, etc.	Blue Mold <i>(Penicillium italicum and P. expansum)</i> Gray Mold <i>(Botrytis cinera)</i>

Use rates for drench application: Dilute ASPIRE to provide a rate of 1.0 - 2.0 pounds per 100 gallons of water.

Use rates for in-line application: Dilute ASPIRE to provide a rate of 1.0 - 2.0 pounds in minimum sufficient liquid volume to obtain thorough coverage.

May be used in conjunction with hydrocooler systems.

Crops such as:	Diseases:
TROPICAL FRUITS such as: Avocados, Bananas, Dates, Figs, Kiwi, Mangoes, Papayas, Persimmons, Pineapple, Pomegranate, Tropical Fruits	Gray Mold (<i>Botrytis cinera</i>) <i>Penicillium</i> spp. <i>Diplodia</i> spp. <i>Phomopsis</i> spp.

Use rates for drench or dip application: Dilute ASPIRE to provide a rate of 1.0 - 2.0 pounds per 100 gallons of water.

Use rates for In-line non recovery applications: Dilute ASPIRE to provide a rate of 1.0 - 2.0 pounds in minimum sufficient liquid volume to obtain thorough coverage.

Crops such as:	Diseases:
Commercial Flowers, Greenhouse & Ornamental Plants, Plant Parts, Preparation Materials, Bare Root Plants, Flowers, Floral Plants, Foliage, Foliage Plants, Bulbs, Bedding & Flowering Greenhouse Plants, Seedling Transplants, Hardwood Cuttings & Woody Ornamentals	Gray Mold (<i>Botrytis cinera</i>) (<i>Penicillium</i> spp.) (<i>Diplodia</i> spp.) (<i>Geotrichum</i> spp.) (<i>Phomopsis</i> spp.)

Use rates for drench or dip application: Dilute ASPIRE to provide a rate of 1.0 - 2.0 pounds per 100 gallons of water.

Use rates for In-line non recovery or portable sprayer applications: Dilute ASPIRE to provide a rate of 1.0 - 2.0 pounds in minimum sufficient liquid volume to obtain thorough coverage.

Crops such as:	Diseases:
TUBEROUS AND CORM VEGETABLES such as: Yams, Sweet potatoes, Potatoes <ul style="list-style-type: none"> Apply Aspire to crop by any method devised for such application in the processing line such as, drenches, dips or non-recovery line sprays. Thorough coverage of crop in the processing line is advised for best results. Apply Aspire directly to the treated crop, coating the entire plant surface with the yeast solution. Aspire may be applied alone or in sequential treatments with sanitation agents such as, chlorine or sodium hypochloride. A fresh water rinse is necessary between the introduction of sanitation agents and the Aspire treatment. Sanitation of the crop surface with sodium hypochloride, chlorine or other sanitation agents can greatly enhance the performance of Aspire. Avoid introducing Aspire to high pH solutions. 	Blue Mold (<i>Penicillium italicum</i>) Gray Mold (<i>Botrytis cinera</i>) <i>Helminthosporium</i>

Use rates for drench or dip application: Dilute ASPIRE to provide a rate of 1.0 - 2.0 pounds per 100 gallons of water.

Use rates for in-line non recovery applications: Dilute ASPIRE to provide a rate of 1.0 - 2.0 pounds in minimum sufficient liquid volume to obtain thorough coverage.

WARRANTY AND CONDITIONS OF SALE

Ecogen warrants that this product conforms to the description on this label and is reasonably fit for the purposes stated on this label when used in accordance with the directions on this label under normal conditions of use.

ECOGEN MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

If this product is defective, Buyer's exclusive remedy shall be the replacement of the product, or if replacement is impracticable, refund of the purchase price. In no case will Ecogen be liable for incidental, consequential or special damages resulting from the handling, storage or use of this product.